

## SLIDE SURFACE FORMING MATERIAL

MIKASA PAINT KK

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**PURPOSE:** To provide the titled material showing an excellent effect of reducing the coefficient of friction for a long period of time, obtained by a method wherein a fine powder of a substance having a low slide friction resistance and a high wear resistance is coated with a silicon oil and the coated powder is mixed with a binder resin containing a silicon coupling agent.

**CONSTITUTION:** A fine powder of a substance having a low slide friction resistance and a high wear resistance, such as Teflon, polyethylene, polypropylene, **boron nitride** or graphite, is prepared and the surface thereof is coated with a thin silicone oil film with a thickness of several molecules or less to increase the contact angle of the surface of the fine powder. In the next step, about 50-150pts.wt. treated fine powder is mixed with 100pts.wt. binder resin and a silicone coupling agent is compounded therein in order to enhance the bonding force of the fine powder and the binder resin to obtain an objective slide surface forming material. The obtained material is applied on the surface of a **weather strip** rubber to be suitably used in lowering the coefficient of friction.